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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,977	03/31/2004	William S. Dynan	791301-1010	6138
24504 7	7590 10/20/2005	•	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, NW			AEDER, SEAN E	
STE 1750	ATMXWAI,IW		ART UNIT	PAPER NUMBER
ATLANTA, G	GA 30339-5948		1642	<u> </u>

DATE MAILED: 10/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary  The MAILING DATE of this communication apperiod for Reply	10/813,977  Examiner  Sean E. Aeder; Ph.D.	DYNAN ET AL.  Art Unit
The MAILING DATE of this communication appeared for Reply		Art Unit
eriod for Reply	Sean E. Aeder: Ph.D.	
eriod for Reply		1642
	pears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re- will apply and will expire SIX (6) MON e, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
tatus		
1) Responsive to communication(s) filed on		
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	s action is non-final.	
3) Since this application is in condition for allowa	ance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.
isposition of Claims		
4) Claim(s) 1-60 is/are pending in the application	١.	
4a) Of the above claim(s) is/are withdra		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-60</u> are subject to restriction and/or	election requirement.	
application Papers		
9) ☐ The specification is objected to by the Examin	er.	
10) The drawing(s) filed on is/are: a) acc		by the Examiner.
Applicant may not request that any objection to the		•
Replacement drawing sheet(s) including the correct		
11)☐ The oath or declaration is objected to by the E		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).
a) All b) Some * c) None of:	, , , = ===============================	
1. Certified copies of the priority documen	nts have been received.	
2. Certified copies of the priority documen		pplication No
3. Copies of the certified copies of the price		
application from the International Burea		
* See the attached detailed Office action for a lis		received.
ttachment(s)		
) Notice of References Cited (PTO-892)		Summary (PTO-413)
) Notice of Draftsperson's Patent Drawing Review (PTO-948) ) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	-:	s)/Mail Date nformal Patent Application (PTO-152)
Paper No(s)/Mail Date	6)  Other:	

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1-4, drawn to a DNA repair modulator that specifically binds to SEQ ID NO:16, classified in class 530, subclass 350.
- II. Claims 5-19 and 27-39, drawn to a single chain antibody that specifically binds DNA-PKcs, classified in class 530, subclass 387.1.
- III. Claims 20-23, drawn to a method of screening for DNA repair modulators comprising introducing a test compound into a plurality of cells, classified in class 435, subclass 7.21.
- IV. Claims 24-26, drawn to a cell-free assay for identifying DNA repair modulators, classified in class 435, subclass 4.
- V. Claims 40, 41, and 52-58, drawn to a polynucleotide vector, classified in class 536, subclass 23.1.
- VI. Claims 42, 45-51, 59, and 60, as specifically drawn to a method of treating cancer comprising introducing into a cancer cell a polypeptide, classified in class 435, subclass 193.1.

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VII. Claims 43-47, 59, and 60, as specifically drawn to a method of treating cancer comprising introducing into a cancer cell a polynucleotide, classified in class 514, subclass 44.

The inventions are distinct, each from the other because of the following reasons:

The inventions of groups I, II, and V represent separate and distinct products.

Group I is drawn to a DNA repair modulator, group II is drawn to a single chain antibody, and group V is drawn to a polynucleotide. These products are made by materially different methods, and are used in materially different methods which have different modes of operation, different functions and different effects.

The inventions of groups III, IV, VI, and VII are materially distinct methods.

Group III is drawn to a method of screening for DNA repair modulators comprising introducing a test compound into a plurality of cells, group IV is drawn to a cell-free assay for identifying DNA repair modulators, group VI is drawn to a method of treating cancer comprising introducing a polypeptide into a cancer cells, group VII is drawn to a method of treating cancer cells comprising introducing a polynucleotide into cancer cells. These methods differ at least in objectives, method steps, reagents and/or dosages and/or schedules used, response variables, and criteria for success.

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Inventions II and VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the DNA repair modulator can be used in the materially different process of antibody production.

Inventions V and VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the polynucleotide vector can be used in the materially different process of affinity chromatography.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

## Note:

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior

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to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean E. Aeder, Ph.D. whose telephone number is 571-272-8787. The examiner can normally be reached on M-F: 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**SEA** 

GARY B. NICKOL, PH.D. PRIMARY EXAMINER